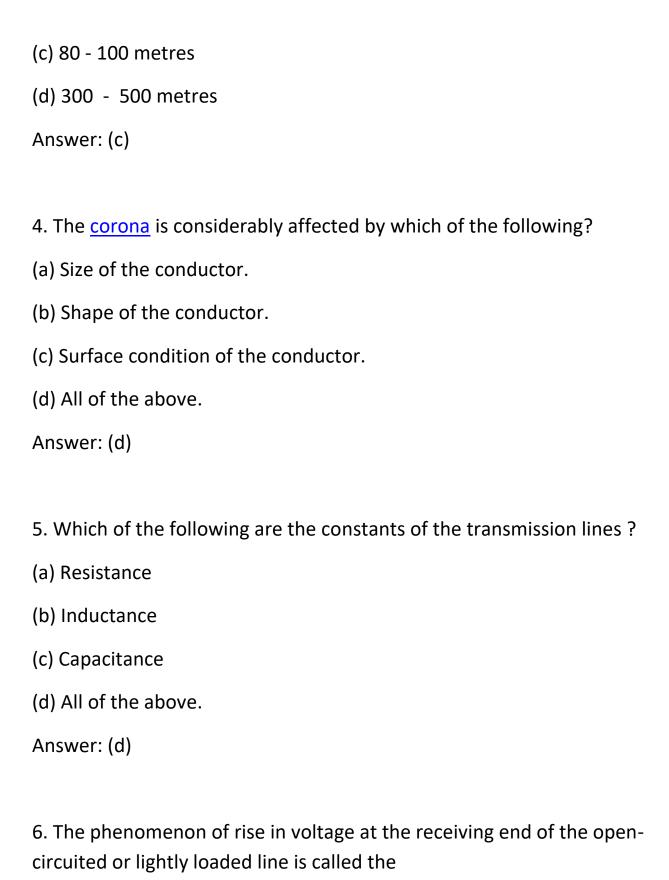
Power System MCQ Questions PDF



(a) Seeback effect .
(b) Ferranti effect.
(c) Raman effect.
(d) none of the above.
Answer: (b)
7. The square root of the ratio of line impedance and shunt admittance is called
(a) surge impedance of the line.
(b) conductance of the line.
(c) regulation of the line.
(d) none of the above.
Answer: (a)
8. Which of the following is the demerit of a 'constant voltage transmission system'?
(a) Increase of short-circuit current of the system.
(b) Availability of steady voltage at all loads at the line terminals
(c) Improvement of power factor at times of moderate and heavy loads.
(d) Possibility of carrying increased power for a given conductor size in case of long distance heavy power transmission.

Answer: (a)
9. Which of the following is the source of heat generation in the cables ?
(a) Dielectric losses in cable insulation.
(b) I ² R losses in the conductor.
(c) Losses in the metallic sheathings and armouring.
(d) all of the above.
Answer: (d)
10. Due to which of the following reasons, the cables should not be operated too hot?
(a) the oil may lose its viscosity and it may start drawing off from higher levels.
(b) expansion of the oil may cause the sheath to burst.
(c) unequal expansion may create voids in the insulation which will lead to ionization.
(d) the thermal instability may rise due to the rapid increase of dielectric losses with temperature.
(e) all of the above.
Answer: (e)

11. Which of the following D.C. distribution system is the simplest and lowest in first cost?
(a) Radial system
(b) Ring system
(c) Inter-connected system
(d) None of the above
Answer: (a)
12. Besides a method of trial and error, which of the following methods is employed for solution of network problems in interconnected system ?
(a) Circulating current method
(b) Thevenin's theorem
(c) Superposition of currents
(d) Direct application of <u>Kirchhoff's laws</u>
(e) All of the above.
Answer: (e)
13. Which of the following faults is most likely to occur in cables?
(a) Cross or short-circuit fault

(b) Open circuit fault
(c) Breakdown of cable insulation
(d) All of the above.
Answer: (c)
14. The cause of damage to the lead sheath of a cable is
(a) crystallization of the lead through vibration.
(b) chemical action on the lead when buried in the earth.
(c) mechanical damage.
(d) all of the above.
Answer: (d)
15. The distributors for residential areas are
(a) single phase
(b) three phase three wire
(c) three phase four wire
(d) none of the above.
Answer: (c)
16. The conductors of the overhead lines are

(a) solid.		
(b) <u>stranded</u> .		
(c) both solid and stranded.		
(d) none of the above.		
Answer: (b)		
17. High voltage transmission lines use		
(a) <u>suspension insulators</u> .		
(b) pin insulators.		
(c) both.		
(d) none of the above.		
Answer: (a)		
18. Multi-core cables generally use		
(a) square conductors.		
(b) circular conductors.		
(c) rectangular conductors.		
(d) sector shaped conductors.		
Answer: (a)		

19. The materia	al commonly used for insulation in high voltage cables is
(a) lead.	
(b) paper.	
(a) rubber.	
(d) none of the	above.
Answer: (b)	
20. The loads o	n distributors are generally
(a) balanced	
(b) unbalanced	
(c) either of the	above.
Answer: (b)	
21. The materia	al generally used for armour of high voltage cables is
(a) aluminium	(b) steel
(c) brass	(d) copper.
Answer: (a)	
22. <u>Transmission line insulators</u> are made of	
(a) glass	(b) porcelain

(c) iron	(d) P.V.C.	
Answer: (b)		
23. The material	commonly used for sheaths of underground cables is	
(a) lead	(b) rubber	
(c) copper	(d) iron.	
Answer: (a)		
24. The spacing between phase conductors of a 220 kV line is approximately equal to		
(a) 2 m	(b) 3.5 m	
(c) 6 m	(d) 8.6 m	
Answer: (6)		
25. In a D.C. 3-w connected in ord	rire distribution system, balancer fields are crossder to	
(a) boost the ge	nerated voltage.	
(b) balance load	s on both sides of the neutral.	
(c) make both machines run as unloaded motors.		
(d) equalize voltages on the positive and negative outer.		

Answer: (d)		
26. In a D.C. 3-wire distributor using balancers and having unequal loads on the two sides		
(a) both balancers run as generators.		
(b) both balancers run as motors.		
(c) balancer connected to lightly loaded side runs as a motor.		
(d) balancer connecte	d to heavily-loaded side runs as a motor.	
Answer: (c)		
27. Transmitted power remaining the same, if supply voltage of a D.C.2-wire feeder is increased 100 percent, saving in copper is		
(a) 25 percent	(b) 50 percent	
(c) 75 percent	(d) 100 percent	
Answer: (b)		
28. A uniformly-loaded D.C. distributor is fed at both ends with equal voltages. As compared to a similar distributor fed at one end only, the drop at the middle point is		
(a) one-fourth	(b) one-third	
(c) one-half	(d) twice	

(e) none of the above.		
Answer: (a)		
29. As compared to a 2 - wire D.C. distributor, in 3 - wire distributor with same maximum voltage to earth uses only		
(a) 31.25 percer	nt of copper.	
(b) 33.3 percent	of copper.	
(c) 66.7 percent of copper.		
(d) 125 percent of copper.		
Answer: (a)		
30. Which of the following is usually not the generating voltage?		
(a) 6.6 kV	(b) 8.8 kV	
(c) 11 kV	(d) 13.2 kV	
Answer: (b)		
31. For an overhead line, the surge impedance is taken as		
(a) 20 - 40 ohm.	(b) 70 - 80 ohms	
(c) 100 - 200 oh	ms (d) 500 -1000 ohms	
Answer: (c)		

32. The presence of ozone due to corona is harmful because it
(a) reduces power factor
(b) corrodes the material
(c) transfer energy to the ground
(d) none of the above.
Answer: (b)
33. A feeder, in a transmission system, feeds power to
(a) distributors.
(b) generating stations.
(c) service mains.
(d) all of the above.
Answer: (a)
34. The power transmitted will be maximum when
(a) corona losses are minimum.
(b) reactance is high.
(c) sending end voltage is more.
(d) receiving end voltage is more.
Answer: (c)

35. A <u>3-phase 4 wire system</u> is commonly used on			
(a) primary transmission.			
(b) secondary tran	(b) secondary transmission.		
(c) primary distribu	ution.		
(d) secondary distr	<u>ribution</u> .		
Answer: (d)			
36. Which of the following is not a constituent for making porcelain insulators?			
(a) Quartz (b) Kaolin		
(c) Felspar (d) Silica		
Answer: (d)			
37. There is a great possibility of occurrence of corona during			
(a) dry weather	(b) winter		
(c) summer heat	(d) humid weather.		
Answer: (d)			

38. Which of the following relays is used on long transmission lines?	
(a) Impedance relay	(b) Mho's relay
(c) Reactance relay	(d) None of the above.
Answer: (b)	
39. The steel used in	steel cored conductors is usually
(a) alloy steel	(b) stainless steel
(c) mild steel	(d) high speed steel
Answer: (c)	
40. Which of the follo	owing distribution system is more reliable?
(a) Radial system	
(b) Tree system	
(c) Ring main system	
(d) All are equally reliable	
Answer: (c)	
41. Transmission volta	age of 11 kV is normally used for distances up to
(a) 20 - 25 km	(b) 40 - 50 km
(c) 60 -70 km	(d) 80 - 400 km

Ans	wer: (a)	
42.	Which of th	ne following <u>regulations</u> is considered best?
(a) !	50%	(b) 20%
(c) 2	10%	(d) 2%
Ans	wer: (d)	
43.	Skin effect is	s proportional to
(a)	(conductor o	diameter) ²
(b) (conductor diameter) ³		
(c) (conductor diameter) ²		
(d) (conductor diameter) ^{1/2}		
(e) ı	none of the a	above.
Ans	wer: (c)	
	In A.C.S.R co	onductors, the insulation between aluminum and steel
(a) i	nsulin	(b) bitumen
(c) v	varnish	(d) no insulation is required
Ans	wer: (d)	

45. Which of the following bus-bar sch	nemes has the lowest cost?
(a) Ring bus-bar scheme	(b) Single bus-bar scheme
(c) Breaker and a half scheme	(d) Main and transfer scheme
Answer: (b)	
46. Owing to skin effect	
(a) current flows through the half cros	s-section of the conductor.
(b) portion of the conductor near the score of the conductor carries less current	
(c) portion of the conductor near the score of the conductor carries more cur	
(d) any of the above.	
Answer: (b)	
47. By which of the following method improved ?	s string efficiency can be
(a) Using a guard ring	(b) Grading the insulator
(c) Using long cross arm	(d) Any of the above
Answer: (d)	

48. In aluminum conductors, steel core is provided to

(a) compensate for skin effect.
(b) neutralize proximity effect.
(c) reduce line inductance.
(d) increase the tensile strength.
Answer: (d)
49. By which of the following a bus-bar is rated?
(a) Current only.
(b) Current and voltage.
(c) Current, voltage and frequency.
(d) Current, voltage, frequency and short time current.
Answer: (d)
50. A circuit is disconnected by isolators when
(a) line is energized.
(b) there is no current in the line.
(c) line is on full load.
(d) circuit breaker is not open.
Answer: (b)

51. For which of the following equipment current rating is not necessary?
(a) Circuit breakers
(b) Isolators
(c) Load break switch
(d) Circuit breakers and load break switches
Answer: (b)
52. In a substation the following equipment is not installed
(a) exciters
(b) series capacitors
(c) shunt reactors.
Answer: (a)
53. Overhead lines generally use
(a) copper conductor
(b) all aluminium conductors
(c) A.C.S.R. conductors
(d) none of these.
Answer: (c)

54. The minimur about	m clearance between the ground and a 220 kV line is
(a) 4.3 m	(b) 5.5 m
(c) 7.0 m	(d) 10.5 m
Answer: (c)	
55. Corona usua the conductor ex	ally occurs when the electrostatic stress in air around xceeds
(a) 6.6 kV (RMS value)/cm	
(b) 11 kV (RMS value)/cm	
(c) 22 kV (maximum value)/cm	
(d) 30 kV (maximum value)/cm	
Answer: (d)	
56. The use of s	train type insulators is made where the conductors are
(a) dead ended	
(b) at Intermediate anchor towers	
(c) any of the above	
(d) none of the above.	
Answer: (c)	

57. The current drawn by the line due to corona losses is	
(a) non-sinusoic	lal (b) sinusoidal
(c) triangular	(d) square
Answer: (a)	
58. Pin type ins	ulators are generally not used for voltages beyond
(a) 1 kV	(b) 11 kV
(c) 22 kV	(d) 33 kV
Answer: (d)	
59. Aluminum l	nas a specific gravity of
(a) 1.5	(b) 2.7
(c) 4.2	(d) 7.8
Answer: (b)	
60. For transmission of power over a distance of 200 km, the	
transmission vo	Itage should be
(a) 132 kV	(b) 68 kV
(c) 33 kV	(d) 11 kV
Answer: (a)	

61. For aluminum, as compared have higher values except	to copper, all the following factors
(a) specific volume	
(b) electrical conductivity	
(c) co-efficient of linear expansio	n
(d) resistance per unit length for	same cress-section
Answer: (b)	
62. Which of the following equipolation feeder, will be most	oment, for regulating the voltage in economical?
(a) Static condenser	
(b) Synchronous condenser	
(c) Tap changing transformer	
(d) Booster transformer	
Answer: (d)	
63. In a tap changing transforme	er, the tappings are provided on
(a) primary winding	(b) secondary winding
(c) high voltage winding	(d) any of the above
Answer: (b)	

64. Constant voltage transmission has the following disadvantage
(a) small conductor area is required for same power transmission.
(b) short-circuit current of the system is increased.
(c) either of the above.
(d) none of the above.
Answer: (b)
65. On which of the following factors skin effect depends?
(a) Frequency of the current
(b) Size of the conductor
(c) Resistivity of the conductor material
(d) All of the above
Answer: (d)
66. The effect of corona can be detected by
(a) presence of ozone detected by odor
(b) hissing sound
(c) faint luminous glow of bluish color
(d) all of the above.
Answer: (d)

67. For transmission of power over a distance of 600 km, the transmission voltage should be in the range
(a) 150 to 220 kV
(b) 100 to 120 kV
(c) 60 to 100 kV
(d) 20 to 50 kV.
Answer: (a)
68. In the analysis of which of the following lines shunt capacitance is neglected?
(a) Short transmission lines
(b) Medium transmission lines
(c) Long transmission lines
(d) Medium as well as long transmission lines.
Answer: (a)
69. When the interconnector between two stations bas large reactance
(a) the transfer of power will take place with voltage fluctuation and noise.
(b) the transfer of power will take place with least loss.

(c) the stations will fall out of step because of large angular displacement between the stations.
(d) none of the above.
Answer: (c)
70. The frequency of voltage generated in case of generators, can be increased by
(a) using reactors
(b) increasing the load
(c) adjusting the governor
(d) reducing the terminal voltage
Answer: (c)
71. When an alternator connected to the bus-bar is, shut down the bus-bar voltage will
(a) fall (b) rise
(c) remain unchanged
(d) none of the above.
Answer: (c)

72. The angular displacement between two interconnected stations is mainly due to		
(a) armature reactar	ice of both alternators	
(b) reactance of the	interconnector	
(c) synchronous reactance of both the alternators		
(d) all of the above.		
Answer: (b)		
73. Electro-mechani	cal voltage regulators are generally used in	
(a) reactors	(b) generators	
(c) transformers	(d) all of the above.	
Answer: (b)		
74. Series capacitors load VAR requireme	s on transmission lines are of little use when the nt is	
(a) large	(b) small	
(c) fluctuating	(d) any of the above.	
Answer: (b)		
75. The voltage regu	ılation in magnetic amplifier type voltage regulator	
is effected by	5 171	

(a) electromagnetic induction			
(b) varying the resistance			
(c) varying the reactance			
(d) variable transformer.			
Answer: (c)			
76. When a conductor carries more current on the surface as compared to core, it is due to			
(a) permeability variation			
(b) corona (c) skin effect			
(d) unsymmetrical fault.			
Answer: (c)			
77. The following system is not generally used			
(a) 1-phase 3 wire			
(b) 1-phase 4 wire			
(c) 3-phase 3 wire			
(d) 3-phase 4 wire			
Answer: (b)			

78. The skin effect of a conductor will reduce as the		
(a) resistivity of conductor material increases		
(b) permeability of conductor material increases		
(c) diameter increases		
(d) frequency increases.		
Answer: (a)		
79. When a live conductor of public electric supply breaks down and touches the earth which of the following will happen?		
(a) Current will flow to earth		
(b) Supply voltage will drop		
(c) Supply voltage will increase		
(d) No current will flow in the conductor.		
Answer: (a)		
80 A 310 km line is considered as		
(a) a long line	(b) a medium line	
(c) a short line	(d) any of the above.	
Answer: (a)		

81. The conductors are bundled primarily to		
(a) increase reactance		
(b) reduce reactance		
(c) reduce radio interference	e	
(d) none of the above.		
Answer: (b)		
82. The top most conducto	r in a high transmission line is	
(a) earth conductor	(b) R-phase conductor	
(c) Y-phase conductor	(d) B-phase conductor	
Answer: (a)		
83. By which of the following regulated?	ng methods voltage of transmission can be	
(a) Use of series capacitors	to neutralize the effect of series reactance.	
(b) Switching in shunt capacitor at the receiving end during heavy loads.		
(c) Use of tap changing transformers.		
(d) Any of the above methods.		
Answer: (d)		

84. Which of the following distribution systems is the most economical ?
(a) A.C. 1-phase system
(b) A.C. 3-phase 3 wire system
(c) A.C. 3-phase 4 wire system
(d) Direct current system.
Answer: (d)
85. Which of the following is the main <u>advantage of AC transmission</u> <u>system over DC transmission system</u> ?
(a) Less instability problem
(b) Less insulation problems
(c) Easy transformation
(d) Less losses in transmission over long distances.
Answer: (d)
86. A tap changing transformer is used to
(a) supply low voltage current for instruments
(b) step up the voltage
(c) step down the voltage

(d) step up as well as step down the voltage.
Answer: (d)
87. Which of the following bus-bar schemes is the most expensive?
(a) Double bus-bar double breaker
(b) Ring bus-bar scheme
(c) Single bus-bar scheme
(d) Main and transfer scheme
Answer: (a)
88. By which of the following methods the protection against direct lightning strokes and high voltage sweep waves is provided?
lightning strokes and high voltage sweep waves is provided?
lightning strokes and high voltage sweep waves is provided? (a) Lightening arresters
lightning strokes and high voltage sweep waves is provided? (a) Lightening arresters (b) Ground wire
lightning strokes and high voltage sweep waves is provided? (a) Lightening arresters (b) Ground wire (c) <u>Lightening arresters</u> and ground wires
lightning strokes and high voltage sweep waves is provided? (a) Lightening arresters (b) Ground wire (c) <u>Lightening arresters</u> and ground wires (d) Earthing of neutral.
lightning strokes and high voltage sweep waves is provided? (a) Lightening arresters (b) Ground wire (c) <u>Lightening arresters</u> and ground wires (d) Earthing of neutral.

(a) Electromagnetic type
(b) Magnetic amplifier
(c) Electronic type using integrated circuits
(d) All of the above.
Answer: (a)
90. Corona results in
(a) radio interference
(b) power factor improvement
(c) better regulation
(d) none of the above.
Answer: (a)
91. Which of the following has least effect on corona?
(a) Atmospheric temperature
(b) Number of ions
(c) Site and charge per ion
(d) Mean free path
Answer: (a)

92. In context of corona, if the conductors are polished and smooth, which of the following statements is correct?
(a) Hissing sound will be more intense.
(b) Power loss will be least.
(c) Corona glow will be uniform along the length of the conductor.
(d) Corona glow will not occur.
Answer: (c)
93. Power loss due to corona is not directly proportional to
(a) spacing between conductors
(b) supply voltage frequency
(c) phase to neutral voltage
(d) all of the above.
Answer: (a)
94. The effect of ice on transmission line conductors is to increase the
(a) transmission losses
(b) weight of the conductor
(c) tendency for corona
(d) resistance to flow of current

Answer: (b) 95. If the height of transmission tower is increased (a) the line capacitance will decrease but line inductance will remain unchanged. (b) the line capacitance and inductance will not change. (c) the line capacitance will increase but line inductance will decrease. (d) the line capacitance will decrease and line inductance will increase. Answer: (a) 96. If string efficiency is 100 percent it means that (a) potential across each disc is zero (b) potential across each disc is same (c) one of the insulator discs is shorted (d) none of the above. Answer: (b)

97. In a 70/6 A.C.S.R conductor there are

- (a) 35 aluminum conductors and 3 steel conductors
- (b) 70 aluminum conductors and 6 steel conductors

(c) 70 steel conductors and 6 aluminum conductors		
(d) none of the above.		
Answer: (b)		
98. On which of the follow	ing does the size of a feeder depend?	
(a) Voltage drop	(b) Voltage	
(c) Frequency	(d) Current carrying capacity	
Answer: (d)		
99. Which of the following	are connected by the service mains?	
(a) Transformer and earth		
(b) Distributor and relay system		
(c) Distributor and consumer terminals		
(d) Distributor and transformer.		
Answer: (c)		
100. In the design of a distr	ibutor which of the following is the major	
(a) Voltage drop		
(b) Current carrying capacity		

(c) Frequency
(d) kVA of system
Answer: (a)
101. In a distribution system major cost is that of
(a) earthing system
(b) distribution transformer
(c) conductors
(d) meters.
Answer: (b)
102. With which of the following are step-up substations associated?
(a) Concentrated load
(b) Consumer location
(c) Distributors
(d) Generating stations.
Answer: (d)

103. Which of the followin consumers having low pow	g equipment should be installed by the er factor?	
(a) Synchronous condenser	·S	
(b) Capacitor bank		
(c) Tap changing transformer		
(d) Any of the above		
Answer: (b)		
104. Which of the following equipment is used to limit short-circuit current level in a substation ?		
(a) Isolator	(b) Lightning switch	
(b) Coupling capacitor	(c) <u>Series reactor</u>	
Answer: (c)		
105. Steepness of the trave	elling waves is altered by of line.	
(a) capacitance	(b) inductance	
(c) resistance	(d) all of the above	
Answer: (d)		
106. The limit of distance of	of transmission line may be increased by the	

Answer: (d)
100 A gay wire
109. A gay wire
(a) protects conductors against short-circuiting
(b) provides emergency earth route
(c) provides protection against surges
(d) support the pole
Answer: (d)
110. Which of the following is neglected in the analysis of short transmission lines?
(a) Series impedance
(b) Shunt admittance
(c) None of the above
(d) All of the above
Answer: (b)
111. Basically the boosters are
(a) synchronous motors
(b) capacitors

(c) inductors
(d) transformers
Answer: (d)
112. Which of the following is a static exciter?
(a) Rectifier
(b) Rotorol
(c) Amplidyne
(d) D.C. separately excited generator
Answer: (a)
113. For exact compensation of voltage drop in the feeder the booster
(a) must be earthed
(b) must work on line voltage
(c) must work on linear portion of its V-I characteristics
(d) must work on nonlinear portion of its V-I characteristics.
Answer: (c)
114. The purpose of using a booster is to
(a) increase current

(b) reduce current
(c) reduce voltage drop
(d) compensate for voltage drop
Answer: (d)
115. Induction regulators are used for voltage control in
(a) alternators
(b) primary distribution
(c) secondary distribution
(d) none of the above.
Answer: (b)
116. A synchronous condenser is generally installed at theof the transmission line.
(a) receiving end
(b) sending end
(c) middle
(d) none of the above
Answer: (a)

117. The area of cross-section of the neutral in a 3-wire D.C. system is generally the area of cross-section of main conductor
(a) same as
(b) one-fourth
(c) one half
(d) double
Answer: (c)
118. For which of the following, the excitation control method is satisfactory?
(a) Low voltage lines
(b) High voltage lines
(c) Short lines
(d) Long lines
Answer: (c)
119. In which of the following cases shunt capacitance is negligible?
(a) Short transmission lines
(b) Medium transmission lines
(c) Long transmission lines

(d) All transmission lines		
Answer: (a)		
120. A <u>lightning arrester</u> is usually located nearer to		
(a) transformer		
(b) isolator		
(c) bus-bar		
(d) circuit breaker		
(e) none of the above		
Answer: (a)		
121. The material used for	the manufacture of grounding wires is	
(a) cast iron	(b) aluminum	
(c) stainless steel	(d) galvanized steel	
Answer: (d)		
122. <u>Surge absorbers</u> prote	ect againstoscillations.	
(a) high voltage high freque	ency	
(b) high voltage low freque	ncy	
(c) low voltage high freque	ncy	

(d) low voltage low fr	requency
Answer: (c)	
123. Skin effect is not	ticeable only at frequencies.
(a) audio	(b) low
(c) high	(d) all
Answer: (c)	
124. Power system st	cability is least affected by
(a) reactance of gene	rator
(b) input torque	
(c) losses	
(d) reactance of trans	smission line
Answer: (c)	
125. In medium trans	smission lines the shunt capacitance is taken into
(a) T-method	(b) π-method
(c) Steinmetz method	j
(d) all of the above.	

Answer: (d)	
126. System groundin	g is done so that
(a) inductive interfere can be controlled.	ence between power and communication circuits
	tial on the lower voltage winding for a at the down to an insignificant value .
(c) the arcing faults to on healthy phases.	earth would not set up dangerously high voltage
(d) for all above reaso	ons.
Answer: (d)	
127. Which of the fol	lowing can be used for bus-bars?
(a) Tubes	(b) Rods
(c) Bars	(d) Any of the above.
Answer: (d)	
128 If the height of following parameters	transmission tower is increased, which of the is likely to change?
(a) Capacitance	(b) Inductance
(c) Resistance	(d) All of the above.

Answer: (a)		
	onductor having uctors will be spe	7 steel strands surrounded by 25 ecified as
(a) 25/7	(b) 7/25	(c) 50/15
Answer: (a)		
130. Impedanc	e relay is used or	n transmission lines.
(a) short	(b) medium	
(c) long	(d) all	
Answer: (b)		
131. Corona is	likely to occur m	aximum in
(a) transmission	lines	
(b) distribution l	lines	
(c) domestic wir	ing	
(d) all of the abo	ove.	
Answer: (a)		

132. The effect of wind pressure is more predominant on

(a) supporting to	owers
(b) neutral wires	5
(c) transmission	lines
(d) insulators.	
Answer: (a)	
133. As compa	red to cables, disadvantage of overhead transmission
(a) inductive into	erference between power and communication circuits.
(b) exposure to	lightning.
(c) exposure to a	atmospheric hazards like smoke, ice, etc.
(d) all of the abo	ove.
Answer: (d)	
	ad transmission lines the effect of capacitance can be the length of line is less than
(a) 80 km	(b) 110 km
(c) 150 km	(d) 210 km.
Answer: (a)	

135. The effective resistance of a conductor will be the same as 'ohmic resistance' when		
(a) power factor is unity.		
(b) current is uniformly distributed in the conductor cross-section.		
(c) voltage is low.		
(d) current is in true sine wa	ave form.	
Answer: (b)		
136. To increase the capac	city of a transmission line for transmitting ng must be decreased?	
(a) Capacitance	(b) Line inductance	
(c) Voltage	(d) All of the above.	
Answer: (b)		
137. By using bundled con	ductors which of the following is reduced?	
(a) Power loss due to coron	a	
(b) Capacitance of the circu	it	
(c) Inductance of the circuit		
(d) All of the above.		
Answer: (a)		

138. Which of the following short-circuits is more dangerous?
(a) Dead short-circuit
(b) Line to ground short-circuit
(c) Line to line short-circuit
(d) Line to line and ground short-circuit.
Answer: (a)
139. In case of transmission line conductors with the increase in atmospheric temperature
(a) length decreases but stress increases.
(b) length increases but stress decreases.
(c) both the length and streets increase.
(d) both the length and stress decrease.
Answer: (b)
140. Skin effect exists only in
(a) AC transmission
(b) high voltage DC overhead transmission
(c) low voltage DC overhead transmission
(d) cables carrying DC current.

Answer: (a)
141. <u>Floating neutral, in 3-phase supply</u> , is undesirable because it causes
(a) low voltage across the load
(b) high voltage across the load
(c) unequal line voltages across the load
(d) none of the above.
Answer: (c)
142. The ground ring transmission lines are used to
(a) reduce the transmission losses
(b) reduce the earth capacitance of the lowest unit
(c) increase the earth capacitance of the lowest unit
(d) none of the above.
Answer: (b)
143. The string efficiency of an insulator can be increased by
(a) correct grading of insulators of various capacitances.
(b) reducing the number of strings.

(c) increasing the number of strings in the insulator.		
(d) none of the above.		
Answer: (a)		
144. High voltages for transmit from	ting power is economically available	
(a) d.c. currents	(b) a.c. currents	
(c) carrier currents	(d) none of the above.	
Answer: (b)		
145. <u>High voltage</u> is primarily u transmission, to	sed, for long distance power	
(a) reduce the time of transmiss	ion	
(b) reduce the transmission loss	es	
(c) make the system reliable		
(d) none of the above.		
Answer: (b)		
146. By using bundle conductor of corona will	rs, the critical voltage for the formation	
(a) remain same	(b) decrease	

(c) increase	(d) not occur.	
Answer: (c)		
147. If the voltage is increased would be	x times, the size of the conductor	
(a) reduced to 1/x² times		
(b) reduced to 1/x times		
(c) increased x times		
(d) increased to x ² times		
Answer: (a)		
148. In the cables sheaths are u	ised to	
(a) prevent the moisture from entering the cable		
(b) provide strength to the cable		
(c) provide proper insulation		
(d) none of the above.		
Answer: (a)		
149. Ground wire is used to		
(a) avoid overloading		

(b) give the support to the tower
(c) give good regulation
(d) connect a circuit conductor or other device to an earth-plate
Answer: (d)
150. Earthing is necessary to give protection against
(a) danger of electric shock
(b) voltage fluctuation
(c) overloading
(d) high temperature of the conductors.
Answer: (a)
151. Resistance grounding is used for voltage between
(a) 3.3 kV to 11 kV
(b) 11 kV to 33 kV
(c) 33 kV to 66 kV
(d) none of the above.
Answer: (a)
152. Solid grounding is adopted for voltages below

(a) 100 V	(b) 200 V		
(c) 400 V	(d) 860 V		
Answer: (d)			
153. The size o	f the earth wire is determined by		
(a) the atmosph	eric conditions		
(b) the voltage of the service wires			
(c) the ampere capacity of the service wires			
(d) none of the a	above.		
Answer: (c)			
154. Transmiss	ion lines link		
(a) generating st	tation to receiving end station.		
(b) receiving end	d station to distribution transformer.		
(c) distribution t	ransformer to consumer premises.		
(d) service point	s to consumer premises.		
Answer: (a)			
155. A booster	is a		
(a) series wound	generator		

(b) shunt wound generator
(c) synchronous generator
(d) none of the above.
Answer: (a)
156. A booster is connected in
(a) parallel with earth connection
(b) parallel with the feeder
(c) series with the feeder
(d) series with earth connection.
Answer: (c)
157. The voltage drop, for constant voltage transmission, is compensated by installing
(a) inductors
(b) capacitors
(c) synchronous motors
(d) all of above.
Answer: (c)

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